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CHEM 107: INORGANIC CHEMISTRY (Course Code: 40720)

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Written by Gary Miessler, Paul Fischer, and Donald Tarr, this manual includes fully worked-out solutions to all end-of-chapter problems in the text. This product accompanies Inorganic Chemistry, 5th Edition

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This highly readable text provides the essentials of Inorganic Chemistry at a level that is neither too high nor too low. Praised for its coverage of theoretical inorganic chemistry, it discusses molecular symmetry earlier than other texts and builds on this foundation in later chapters. Plenty of supporting book references encourage you to further explore topics of interest.

For one/two-semester, junior/senior-level courses in Inorganic Chemistry. This highly readable text provides the essentials of Inorganic Chemistry at a level that is neither too high (for novice students) nor too low (for advanced students). It has been praised for its coverage of theoretical inorganic chemistry. It discusses molecular symmetry earlier than other texts and builds on this foundation in later chapters. Plenty of supporting book references encourage instructors and students to further explore topics of interest.

This substantially revised and expanded new edition of the bestselling textbook, addresses the difficulties that can arise with the mathematics that underpins the study of symmetry, and acknowledges that group theory can be a complex concept for students to grasp. Written in a clear, concise manner, the author introduces a series of programmes that help students learn at their own pace and enable to them understand the subject fully. Readers are taken through a series of carefully constructed exercises, designed to simplify the mathematics and give them a full understanding of how this relates to the chemistry. This second edition contains a new chapter on the projection operator method. This is used to calculate the form of the normal modes of vibration of a molecule and the normalised wave functions of hybrid orbitals or molecular orbitals. The features of this book include: * A concise, gentle introduction to symmetry and group theory * Takes a programmed learning approach * New material on projection operators, and the calculaion of normal modes of vibration and normalised wave functions of orbitals This book is suitable for all students of chemistry taking a first course in symmetry and group theory.

The latest edition of this highly acclaimed title introduces the reader to a wide range of spectroscopies, and includes both the background theory and applications to structure determination and chemical analysis. It covers rotational, vibrational, electronic, photoelectron and Auger spectroscopy, as well as EXAFs and the theory of lasers and laser spectroscopy. * A revised and updated edition of a successful, clearly written book * Includes the latest developments in modern laser techniques, such as cavity ring-down spectroscopy and femtosecond lasers * Provides numerous worked examples, calculations and questions at the end of chapters

"A comprehensive guide to solid-state chemistry which is ideal for all undergraduate levels. It covers well the fundamentals of the area, from basic structures to methods of analysis, but also introduces modern topics such as sustainability." Dr. Jennifer Readman, University of Central Lancashire, UK "The latest edition of Solid State Chemistry combines clear explanations with a broad range of topics to provide students with a firm grounding in the major theoretical and practical aspects of the chemistry of solids." Professor Robert Palgrave, University College London, UK Building a foundation with a thorough description of crystalline structures, this fifth edition of Solid State Chemistry: An Introduction presents a wide range of the synthetic and physical techniques used to prepare and characterise solids. Going beyond this, this largely nonmathematical introduction to solid-state chemistry includes the bonding and electronic, magnetic, electrical, and optical properties of solids. Solids of particular interest—porous solids, superconductors, and nanostructures—are included. Practical examples of applications and modern developments are given. It offers students the opportunity to apply their knowledge in real-life situations and will serve them well throughout their degree course. New in the Fifth Edition A new chapter on sustainability in solid-state chemistry written by an expert in this field Cryo-electron microscopy X-ray photoelectron spectroscopy (ESCA) Covalent organic frameworks Graphene oxide and bilayer graphene Elaine A. Moore studied chemistry as an undergraduate at Oxford University and then stayed on to complete a DPhil in theoretical chemistry with Peter Atkins. After a two-year postdoctoral position at the University of Southampton, she joined the Open University in 1975, becoming a lecturer in chemistry in 1977, senior lecturer in 1998, and reader in 2004. She retired in 2017 and currently has an honorary position at the Open University. She has produced OU teaching texts in chemistry for courses at levels 1, 2, and 3 and written texts in astronomy at level 2 and physics at level 3. She was team leader for the production and presentation of an Open University level 2 chemistry module delivered entirely online. She is a Fellow of the Royal Society of Chemistry and a Senior Fellow of the Higher Education Academy. She was co-chair for the successful Departmental submission of an Athena Swan bronze award. Lesley E. Smart studied chemistry at Southampton University, United Kingdom. After completing a PhD in Raman spectroscopy, she moved to a lectureship at the (then) Royal University of Malta. After returning to the United Kingdom, she took an SRC Fellowship to Bristol University to work on X-ray crystallography. From 1977 to 2009, she worked at the Open University chemistry department as a lecturer, senior lecturer, and Molecular Science Programme director, and she held an honorary senior lectureship there until her death in 2016. At the Open University, she was involved in the production of undergraduate courses in inorganic and physical chemistry and health sciences. She served on the Council of the Royal Society of Chemistry and as the chair of their Benevolent Fund.

With its updates to quickly changing content areas, a strengthened visual presentation and the addition of new co-author Paul Fischer, the new edition of this highly readable text supports the modern study of inorganic chemistry better than ever. Inorganic Chemistry, 5th Edition delivers the essentials of Inorganic Chemistry at just the right level for today ’ s classroom — neither too high (for novice students) nor too low (for advanced students). Strong coverage of atomic theory and an emphasis on physical chemistry give students a firm understanding of the theoretical basis of inorganic chemistry, while a reorganised presentation of molecular orbital and group theory highlights key principles more clearly. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Spessard and Miessler's Organometallic Chemistry, originally published by Prentice Hall in 1997, is widely acknowledged as the most appropriate text for undergraduates and beginning graduate students taking this course. It is a highly readable and approachable text that starts with the basic inorganic chemistry needed to understand this advanced topic. Unlike the primary competing book by Crabtree (Wiley), S/M places a strong emphasis on structure and bonding in the first several chapters, which lay the foundation for later discussion of reaction types and applications. The organization of material is much more accessible for students who have never seen organometallic chemistry before. In addition to being pitched at the right level for undergraduate students, S/M presents outstanding explanations of important core topics such as molecular orbitals and bonding and supports these discussions with detailed illustrations and praised end of chapter problems. The second edition has been significantly revised and updated to include advancements over the last ten years in NMR, IR spectroscopy, nanotechnology and physical methods. The authors have significantly updated four chapters (9, 10, 11 and 12). Chapter 9 (catalysis) has been revised to cover the advances in catalytic cycle research. Chapter 10 in the first edition, which covered carbene complexes, metathesis, and polymerization, has been divided into two chapters in view of the expanded research efforts that have

occurred over the last ten years in these areas. Chapter 10 in the second edition now focuses on carbene complexes, and Chapter 11 covers aspects of metathesis and polymerization reactions including an expanded discussion of Schrock and Grubbs metal carbene catalysts. Chapter 12 (Chapter 11, first edition) is a substantially-revised treatment of the applications of organometallic chemistry to organic synthesis. This chapter offers an extensive discussion of asymmetric hydrogenation and oxidation methodology as well as a greatly revised treatment of Tsuji-Trost allylation, the Heck reaction, and palladium-catalyzed cross-coupling reactions. The latter topic includes discussion of the Stille, Suzuki, Sonogashira, and Negishi cross-couplings, reactions that have had a profound impact on the synthesis of anti-tumor compounds and other potent pharmaceuticals. In addition, the authors have included more molecular model illustrations, and introduced more modern examples and medical/medicinal applications across the text. They have included 53% more in-chapter exercises and end-of-chapter problems (23% more exercises and 81% more EOCs). The second edition has been extensively updated to include current literature (62% more references to the chemical literature).

One approach to organic synthesis is retrosynthetic analysis. With this approach chemists start with the structures of their target molecules and progressively cut bonds to create simpler molecules. Reversing this process gives a synthetic route to the target molecule from simpler starting materials. This "disconnection" approach to synthesis is now a fundamental part of every organic synthesis course. Workbook for Organic Synthesis: The Disconnection Approach, 2nd Edition This workbook provides a comprehensive graded set of problems to illustrate and develop the themes of each of the chapters in the textbook Organic Synthesis: The Disconnection Approach, 2nd Edition. Each problem is followed by a fully explained solution and discussion. The examples extend the student's experience of the types of molecules being synthesised by organic chemists, and the strategies they employ to control their syntheses. By working through these examples students will develop their skills in analysing synthetic challenges, and build a toolkit of strategies for planning new syntheses. Examples are drawn from pharmaceuticals, agrochemicals, natural products, pheromones, perfumery and flavouring compounds, dyestuffs, monomers, and intermediates used in more advanced synthetic work. Reasons for wishing to synthesise each compound are given. Together the workbook and textbook provide a complete course in retrosynthetic analysis. Organic Synthesis: The Disconnection Approach, 2nd Edition There are forty chapters in Organic Synthesis: The Disconnection Approach, 2nd Edition; those on the synthesis of given types of molecules alternate with strategy chapters in which the methods just learnt are placed in a wider context. The synthesis chapters cover many ways of making each type of molecule starting with simple aromatic and aliphatic compounds with one functional group and progressing to molecules with many functional groups. The strategy chapters cover questions of selectivity, protection, stereochemistry, and develop more advanced thinking via reagents specifically designed for difficult problems. In its second edition updated examples and techniques are included and illustrated additional material has been added to take the student to the level required by the sequel, Organic Synthesis: Strategy and Control. Several chapters contain extensive new material based on courses that the authors give to chemists in the pharmaceutical industry. Workbook for Organic Synthesis: The Disconnection Approach, 2nd edition, combined with the main textbook, provides a full course in retrosynthetic analysis for chemistry and biochemistry students, and a refresher course for organic chemists working in industry and academia.